

What is claimed is:

1. A method of controlling a solenoid actuator, comprising the step of:

canceling hysteresis characteristics of the solenoid actuator by a solenoid drive current controller
5 that stabilizes a solenoid drive current to a target value through a swinging period in which the solenoid drive current is swung up and down about the target value when the solenoid drive current is controlled toward the target value.

2. The method according to Claim 1, further comprising the steps of:

starting the solenoid drive current controller with using a leading edge of a current control signal as a
5 trigger; and

superimposing an alternating wave produced from the solenoid drive current controller on the current control signal for a given time.

3. The method according to Claim 2, wherein the current control signal for starting the solenoid drive current controller is supplied from a solenoid control circuit to a solenoid drive circuit.

4. The method according to Claim 1, further comprising the steps of:

producing a control signal analogous to a current value pattern for the solenoid actuator;

5 delivering the control signal to a solenoid drive circuit.